International application No. PCT/KR2004/003471

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04L 12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04B, L, N, M, Q, G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for Inventions since 1975

Korean Utility models and Applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,363,107 B1 (Xircom Wireless, INC.) 26 MAR 2002 see the whole documents	1 - 19
A	US 5,164, 942 B1(NCR Corporation) 17 NOV 1992 see the whole documents	1 - 19
A	US 6,590,881 B1(Qualcomm, Inc.) 8 JUL 2003 see the whole documents	1,10
P,A	US 6,696,879 B1(Micron tech. Inc.) 24 FEB 2004 see the whole documts	1, 10
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	Further	documents	are listed	in the	continuation	of Box C.
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See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "&" document member of the same patent family

Date of the actual completion of the international search

23 MARCH 2005 (23.03.2005)

Date of mailing of the international search report

24 MARCH 2005 (24.03.2005)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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